BRUHAT BENGALURU MAHANAGARA PALIKE

PRE-MEASUREMENT

MEASUREMENT SHEET

Name of work: Improvements to Roads and Drains at Ramachandrapura Kempanna Layout Roads and Surrounding areas in Ward No. 15 (Kuvempunagara).

Estimated Cost : Rs. 20.00 Lakhs

Head of Account : P3726 Zonal Public Works - POW Works

Job Code: 015-23-000003

Name of Agency: Sri. Suresh. U, No. 12, 4th Cross, Sunrise Colony, Cholanayakanahalli, RT nagar, Bengaluru - 560032.

Work order No: BBMP/EE/BTP/WO/130/2022-23 D: 02-03-2023.

	Measurements Recarded on :	12-03-2023					
Sl No	Description of work	Mesurement				Qty.	Unit
		No.	L	B	D		
1	Earth work Excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work.						
	New Drain						
	Ramachandrapura tank Road						
	From Dead end to Mariyamma Block Road	1	15.00	1.00	1.00	15.00	
		1	15.00	1.00	1.00	15.00	
		1	15.00	1.00	1.00	15.00	
		1	15.00	1.00	1.00	15.00	
		1	5.00	1.00	1.00	5.00	
	From Mariyamma Block Road to Culvert						
		1	15.00	1.00	1.00	15.00	
		1	15.00	1.00	1.00	15.00	
		1	15.00	1.00	1.00	15.00	
		1	15.00	1.00	1.00	15.00	
		1	15.00	1.00	1.00	15.00	
		1	7.00	1.00	1.00	7.00	
	Muneshwaraswamy Temple						
		1	15.00	1.00	1.00	15.00	
		1	6.30	1.00	1.00	6.30	
	Kalathur Layout Cross						
		1	15.00	1.00	1.00	15.00	
		1	2.00	1.00	1.00	2.00	
	Culverts						
	Mariyamma Block Enterance	1	5.80	1.50	1.25	10.88	
	Kalathur Layout 4th Main	1	7.20	1.50	1.20	12.96	
	Muneshwaraswamy Temple	1	3.80	2.00	1.20	9.12	

Sl No	Description of work	Mesurement				Qty.	Unit
		No.	L	B	D		
		Total Qty =				218.26	
		Qty Ltd to Tender Qty =				218.00	Cum

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Sl No	Description of work	Mesurement No.	L	B	D	Qty.	Unit
	Measurements Recarded on :	20-03-2023					
2	Providing and laying in position Plain Cement Concrete Mix 1:3:6 (M10) for levelling course for all works in foundation. Using 40 mm nominal size graded crushed coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications.						
	New Drain						
	Ramachandrapura tank Road						
	From Dead end to Mariyamma Block Road	1	15.00	1.00	0.15	2.25	
		1	15.00	1.00	0.15	2.25	
		1	15.00	1.00	0.15	2.25	
		1	15.00	1.00	0.15	2.25	
		1	5.00	1.00	0.15	0.75	
	From Mariyamma Block Road to Culvert						
		1	15.00	1.00	0.15	2.25	
		1	15.00	1.00	0.15	2.25	
		1	15.00	1.00	0.15	2.25	
		1	15.00	1.00	0.15	2.25	
		1	15.00	1.00	0.15	2.25	
		1	7.00	1.00	0.15	1.05	
	Muneshwaraswamy Temple						
		1	15.00	1.00	0.15	2.25	
		1	6.30	1.00	0.15	0.95	
	Kalathur Layout Cross						
		1	15.00	1.00	0.15	2.25	
		1	2.00	1.00	0.15	0.30	
	Culverts						
	Mariyamma Block Enterance	1	5.80	1.50	0.20	1.74	
	Kalathur Layout 4th Main	1	7.20	1.50	0.20	2.16	
	Muneshwaraswamy Temple	1	3.80	2.00	0.15	1.14	
		Total Qty =				**32.84**	
		Qty Ltd to Tender Qty =				**32.40**	Cum

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Sl No	Description of work	Mesurement No.	L	B	D	Qty.	Unit
	Measurements Recarded on :	09-05-2023					
3	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. M20 (The cost of steel reinforcement & formwork to be paid separately)						
	New Drain						
	Raft						
	Ramachandrapura tank Road						
	From Dead end to Mariyamma Block Road	1	15.00	1.00	0.15	2.25	
		1	15.00	1.00	0.15	2.25	
		1	15.00	1.00	0.15	2.25	
		1	15.00	1.00	0.15	2.25	
		1	5.00	1.00	0.15	0.75	
	From Mariyamma Block Road to Culvert						
		1	15.00	1.00	0.15	2.25	
		1	15.00	1.00	0.15	2.25	
		1	15.00	1.00	0.15	2.25	
		1	15.00	1.00	0.15	2.25	
		1	15.00	1.00	0.15	2.25	
		1	7.00	1.00	0.15	1.05	
	Muneshwaraswamy Temple						
		1	15.00	0.90	0.15	2.02	
		1	6.30	0.90	0.15	0.85	
	Kalathur Layout Cross						
		1	15.00	0.90	0.15	2.02	
		1	2.00	0.90	0.15	0.27	
	Side Walls						
	Ramachandrapura tank Road						
	From Dead end to Mariyamma Block Road	2	15.00	0.15	0.60	2.70	
		2	15.00	0.15	0.60	2.70	
		2	15.00	0.15	0.60	2.70	
		2	15.00	0.15	0.60	2.70	
		2	5.00	0.15	0.60	0.90	
	From Mariyamma Block Road to Culvert						
		2	15.00	0.15	0.60	2.70	
		2	15.00	0.15	0.60	2.70	
		2	15.00	0.15	0.60	2.70	
		2	15.00	0.15	0.60	2.70	
		2	15.00	0.15	0.65	2.93	
		2	7.00	0.15	0.65	1.37	
	Muneshwaraswamy Temple						

Sl No	Description of work	Mesurement				Qty.	Unit
		No.	L	B	D		
		2	15.00	0.15	0.60	2.70	
		2	6.30	0.15	0.60	1.13	
	Kalathur Layout Cross						
		2	15.00	0.15	0.60	2.70	
		2	2.00	0.15	0.60	0.36	
	Culvert						
	Raft						
	Mariyamma Block Enterance	1	5.80	1.40	0.20	1.62	
	Kalathur Layout 4th Main	1	7.20	1.40	0.20	2.02	
	Muneshwaraswamy Temple	1	3.80	1.80	0.20	1.37	
	Side Walls						
	Mariyamma Block Enterance	2	5.80	0.30	0.60	2.09	
	Kalathur Layout Cross	2	7.20	0.30	0.60	2.59	
	Muneshwaraswamy Temple	2	3.80	0.30	0.60	1.37	
		Total Qty =				**71.95**	
		Qty Ltd to Tender Qty =				**71.61**	Cum

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Sl No	Description of work	Mesurement				Qty.	Unit
		No.	L	B	D		
	Measurements Recarded on :	09-05-2023					
4	Supplying, Fitting and Placing un-coated TMT bar Reinforcement in sub-structure complete as per Drawing and Technical Specifications.						
	For Drain						
	U Shape Drains	**No**	**L**	**Mtrs**	**Kg/m**	**Kgs**	
	Ramachandrapura tank Road						
	From Dead end to Mariyamma Block Road						
	10 mm dia	591	2.10	1241.10	0.62	769.48	
	8 mm dia	16	65.00	1040.00	0.39	405.60	
	Total					**1175.08**	
	From Mariyamma Block Road to Culvert						
	10 mm dia	746	2.10	1566.60	0.62	971.29	
	8 mm dia	16	82.00	1312.00	0.39	511.68	
	Total					**1482.97**	
	Muneshwaraswamy Temple						
	10 mm dia	194	2.10	407.40	0.62	252.59	
	8 mm dia	16	21.30	340.80	0.39	132.91	
	Total					**385.50**	
	Kalathur Layout Cross						
	10 mm dia	155	2.10	325.50	0.62	201.81	
	8 mm dia	16	17.00	272.00	0.39	106.08	
	Total					**307.89**	
	RCC Drain Total					**3351.44**	
	Culverts						
	Mariyamma Block Enterance						
	16 mm	65	2.20	143.00	1.58	225.94	
	12 mm	34	5.80	197.20	0.89	175.51	
	Total					**401.45**	
	Kalathur Layout Cross						
	16 mm	85	2.20	187.00	1.58	295.46	
	12 mm	34	7.20	244.80	0.89	217.87	
	Total					**513.33**	
	Muneshwaraswamy Temple						
	16 mm	48	2.20	105.60	1.58	166.85	
	12 mm	34	3.80	129.20	0.89	114.99	
	Total					**281.84**	
	Culverts Total					**1196.62**	
	RCC Drain + Culverts Total					**4548.06**	Kgs
		Total Qty =				**4.55**	Tonne
		Qty Ltd to Tender Qty =				**4.54**	Tonne

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Sl No	Description of work	Mesurement				Qty.	Unit
		No.	L	B	D		
	Measurements Recarded on :	09-05-2023					
5	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite / trap / basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately **Mix 1:3:6 (M10) Using 20 mm nominal size graded crushed coarse aggregate**						
	Culvert Ramp						
	Mariyamma Block Enterance	2	5.80	1.20	0.15	2.09	
	Kalathur Layout Cross	2	7.20	1.20	0.15	2.59	
	Muneshwaraswamy Temple	2	3.80	1.20	0.15	1.37	
		Total Qty =				**6.05**	
		Qty Ltd to Tender Qty =				**6.00**	Cum

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